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PA - (SHIE) SHINETSU CHEM IND CO LTD

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PR - JP19920304906 19921016

XIC - C08G-064/10 ; C08K-003/22 ; C08K-005/09 ; C08K-005/42 ; C08L-025/04 ; (C08L-025/04 C08L-083/07) ; (C08L-025/04 C08L-069/00 C08L-083/07) ; (C08L-025/04 C08L-043/04 C08L-069/00)

AB - J06128434 A flame retardant resin compsn. comprises; 100 pts. wt. of (A) a thermoplastic styrene resin; 1 to 50 (pref. 5 to 10) pts. wt. of (B) an organopolysiloxane resin which contains a CH₂=CHSiO_{1.5} unit or CH₂=CH(CH₃)SiO unit and has a molecular weight of 500 to 100,000 (pref. 1,000 to 20,000); 0.1 to 20, (pref. 0.2 to 10) pts. wt. of (C) at least one flame retarder selected from potassium perfluoroalkane sulphonate, brominated polycarbonate resin and magnesium carboxylate; and 0 to 200 pts. wt. of (D) a mineral hydroxide.

- Also claimed are compsns. where; (B) has CH₂=CHSiO_{1.5} unit or CH₂=CH.CH₃SiO unit and C₆H₅SiO_{1.5} unit; (B) has CH₂=CHSiO_{1.5} unit or CH₂CH.CH₃SiO unit and (C₆H₅)₂SiO₂ unit; (B) has CH₂=CHSiO_{1.5} unit or CH₂=CH.CH₃SiO unit and C₆H₅.CH₃SiO unit; or (B) has CH₂=CHSiO_{1.5} unit or CH₂=CH.CH₃SiO unit, SiO₂ unit and (CH₃)₃SiO_{0.5} unit.

- Pref. (A) is polystyrene, high-strength polystyrene, butadiene-styrene copolymer, acrylonitrile-styrene copolymer and acrylonitrile-butadiene-styrene copolymer. (B) includes a hydrolysate or chlorosilane or alkoxy silane, an equilibrated product of cyclic siloxane, etc. The terminal gp. may be silanol, methoxy, ethoxy, isopropoxy or isobutoxy gp. Pref. (C) is potassium perfluorobutane sulphonate and magnesium stearate. Pref. (D) is aluminium hydroxide and magnesium hydroxide.

- ADVANTAGE - The flame retardant resin compsn. has high safety as it generates no harmful gas and shows reduced dripping on combustion.

- In an example, formulation comprised; 100 pts. wt. of standard grade polystyrene; 10 pts. wt. of organopolysiloxane resin of formula (C₆H₅SiO_{1.5})_{0.8}(CH₂=CHSiO_{1.5})_{0.2}; 0.5 pt. wt. of potassium perfluorobutane sulphonate; and 100 pts. wt. of aluminium hydroxide.(Dwg.0/0)

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IW - FLAME RETARD RESIN COMPOSITION COMPRISING THERMOPLASTIC POLYSTYRENE RESIN ORGANO POLYSILOXANE RESIN FLAME RETARD METAL HYDROXIDE REDUCE HARM GAS DRIP COMBUST

W - FLAME RETARD RESIN COMPOSITION COMPRISING THE THERMOPLASTIC POLYSTYRENE RESIN ORGANIC POLYSILOXANE RESIN FLAME RETARD METAL HYDROXIDE REDUCE

HARM GAS DRIP COMBUST

NC - 001

OPD - 1992-10-16

ORD - 1994-05-10

PAW - (SHIE) SHINETSU CHEM IND CO LTD

TI - Flame retardant resin compsn. - comprises thermoplastic styrene]
resin, organo:polysiloxane resin, flame retarder and metal hydroxide
for reduced harmful gas and dripping on combustion